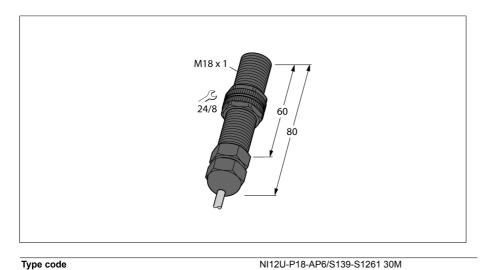


Inductive sensor For underwater applications NI12U-P18-AP6/S139-S1261 30M





ype code	NI12U-P18-AP6/S139-S1261 30M
dent-No.	1650233

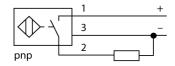
Rated operating distance Sn	12 mm	
Mounting condition	non-flush	
Assured switching distance	≤ (0,81 x Sn) mm	
Repeatability	≤ 2 % of full scale	
Static pressure	≤ 35 bar	
Temperature drift	≤ ± 10 %	
	\leq ± 15 %, \leq -25 °C v \geq +70 °C	
Hysteresis	315 %	
Ambient temperature	-30+85 °C	

Operating voltage	1030VDC	
Residual ripple	≤ 10 % U _{ss}	
DC rated operational current	≤ 200 mA	
No-load current I₀	≤ 15 mA	
Residual current	≤ 0.1 mA	
Rated insulation voltage	≤ 0.5 kV	
Short-circuit protection	yes/ cyclic	
Voltage drop at I _e	≤ 1.8 V	
Wire breakage / Reverse polarity protection	yes/ complete	
Output function	3-wire, NO contact, PNP	
Switching frequency	2 kHz	

Short-circuit protection	yes/ cyclic
Voltage drop at I _e	≤ 1.8 V
Wire breakage / Reverse polarity protection	yes/ complete
Output function	3-wire, NO contact, PNP
Switching frequency	2 kHz
Construction	threaded barrel, M18 x 1
Dimensions	80 mm
Housing material	plastic, POM, black
Material active area	plastic, POM, Black
End cap	Plastic, PA
Max. tightening torque housing nut	2 Nm
Connection	cable
Cable quality	5.2 mm, Ölflex rugged 210, TPE, 30m
Cable cross section	3 x 0.5 mm ²
Vibration resistance	55 Hz (1 mm)
Shock resistance	30 g (11 ms)
Protection class	IP68

- Threaded barrel, M18 x 1
- Plastic, POM
- For underwater and off-shore applications
- Oil and seawater resistant
- Protection class IP68, 350 m water col-
- Factor 1 for all metals
- Resistant to magnetic fields
- DC 3-wire, 10...30 VDC
- NO contact, PNP output
- Cable connection

Wiring diagram



Functional principle

Inductive sensors detect metal objects contactless and wear-free. uprox Factor 1 sen- sors have significant advantages due to their patented ferrite-coreless multicoil system. They detect all metals at the same large switching distance and are resistant to magnetic fields.



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Diameter of the active area B	Ø 18 mm
Distance N	2 x Sn
Distance G	6 x Sn
Distance S	1.5 x B
Distance T	65 mm
Distance W	3 x Sn
Distance D	3 x B

